

DIR INFORMATION SECURITY FORUM - APRIL 14, 2016

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## **AGENDA**



### Information Sharing

- Information Sharing is Only for the Advanced
- Not the Solution to the Problem

### Threat Intelligence

- There Is a Magic Source of Context
- Actionable Automation: Fire Ready Aim



# INFORMATION SHARING

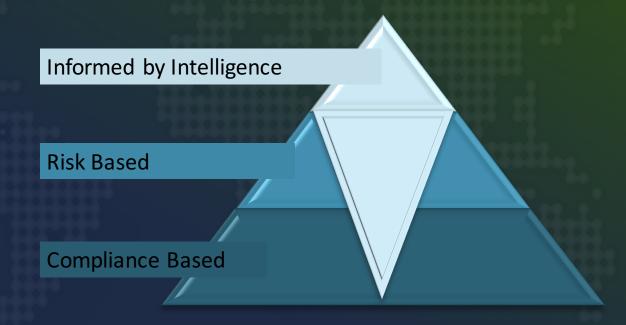
## EVOLUTION AND THE HIERARCHY OF NEEDS

Sharing is Needed to Build Capability, But Many Wait to Be 'Ready' to Share

Informed by Intelligence Risk Based **Compliance Based** 

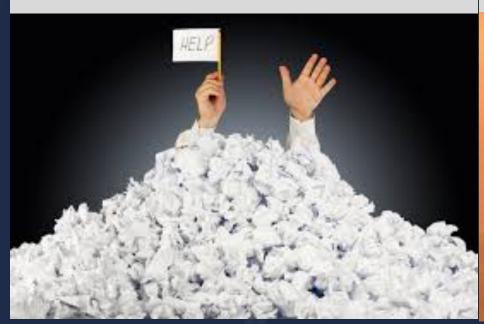
## EVOLUTION AND THE HIERARCHY OF NEEDS

Information Sharing is Fundamental and Essential, Not Aspirational



# BENCHMARKING: GOING BEYOND KEEPING UP WITH THE JONESES

Overwhelmed about where to start...

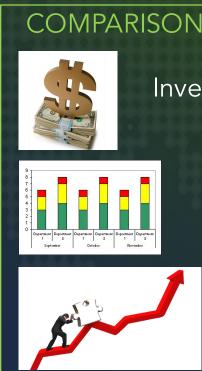


...or underwhelmed by the information available.



## STATE OF TEXAS CYBERSECURITY FRAMEWORK







Investment needed and Costs to operate

Progress to roadmap goals

Best practices for improving

# LEARNING FROM THE (MIS)FORTUNE OF OTHERS



Cheat – Copy liberally from others

Consider as many external input and output process opportunities as possible...



...to see around the corners.

Find a tribe, then share tribal knowledge



# INFORMATION SHARING DOESN'T WORK?!



# VISIBILITY -- CLARITY -- INFORMATION

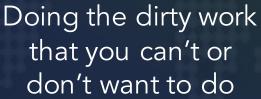




# THREAT INTELLIGENCE

## THREAT INTELLIGENCE FEEDS – INTEL AS A SERVICE







# SET MY INTEL FREE

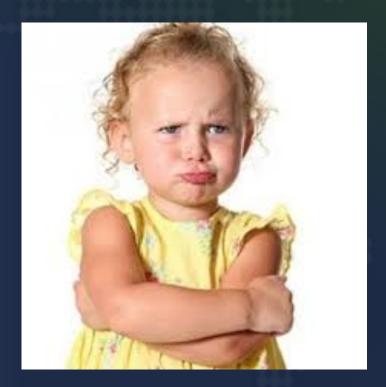
The Threat Intel Hostage Situation





Did you know you're already sharing?

# "I WANT MY THREAT INTEL TO BE ACTIONABLE"





# BAKING THE CONTEXT INTO THE INTEL

What defines relevancy for you?

What defines significance, and how is it prioritized?

Target of opportunity, or singled out?

What makes intelligence reliable? Trustworthy?

Are you willing to wait for perfect intel, or is good enough good enough?



## COLLECTIVE INTELLIGENCE







PHISHING VOLUMES

100 million
phishing messages get through every do

3 billion phishing messages month

36 billion

ANNUAL PHISHING COSTS

Phishing costs Brands<sup>2</sup>

\$70.2 billion

Phishing costs Corporate IT<sup>3</sup>

\$28.1 billion

Estimated costs per Corporate IT: \$780 per phish

TOP SPOOF RATES/INDUSTRY

50 Top Federal domains

50 Top State/Local Gov domains

25 Top Social domains 19%

100 FDIC domains

500 Fortune domains

500 Top Internet retailer domains 6%

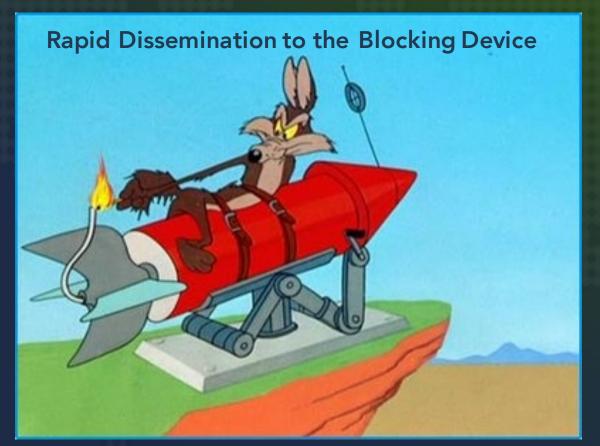
Sources: (1) Agari (2) Cisco (3) IID/Wachovia





# AUTOMATING THREAT INTELLIGENCE

# FIRE, READY, AIM



## AUTOMATION WITHIN THE INTELLIGENCE PROCESS

### Collection

- Process x000's of indicators/sources/observations
- Wheat v. Chaff

### Production

Homer's "Odyssey" on an Etch a Sketch

### Dissemination

Let's schedule a conference room and have a meeting

### Feedback

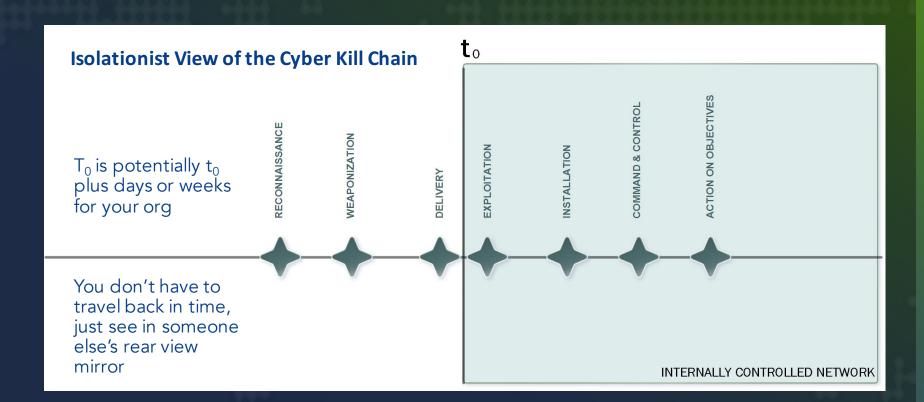
Advancing the "Context" issue with less effort

#### Collection: [Member Submissions, Other ISACs, US Government, Threat Providers] In the early stages, intelligence from external partners will likely be the largest source of information **Analysis:** Feedback: Analysts will compile sanitize, and analyze analysts will tailor information, highlighting products based on the most important member needs and items for the retail identified gaps Information Framework **Production: Utilization:** Analysts will tailor Members use information products and services to strengthen their enterprise to provide value to Retail ISAC members Dissemination: Members will receive tailored. actionable, and timely information

## MAGNIFY YOUR THREAT INTEL

Information Sharing Sharing Information Sharing Information Sharing Information Sh Information Sharing Information Threat Intelligence on Sharing Information Sharing

## KILL CHAIN AND THE POINT OF IMPACT



## HUNTING AND THE KILL CHAIN

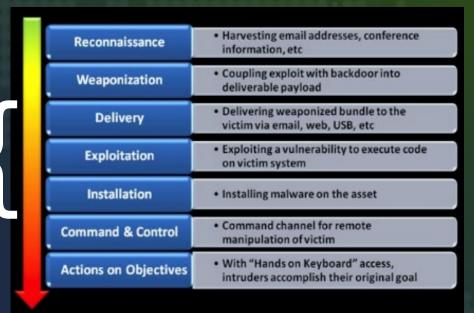
How many alerts per day can your team process?

- Consider 15 minutes per alert per analyst
- 32 per FTE per shift

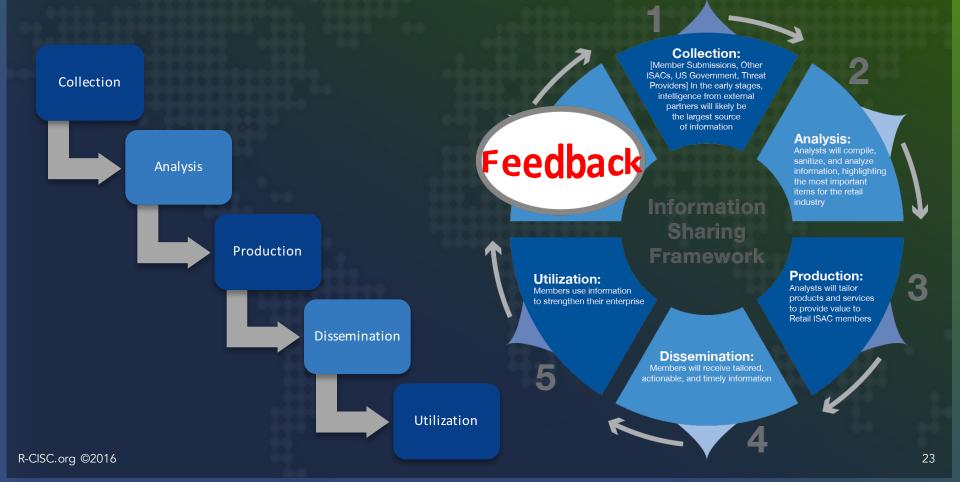
Point of impact

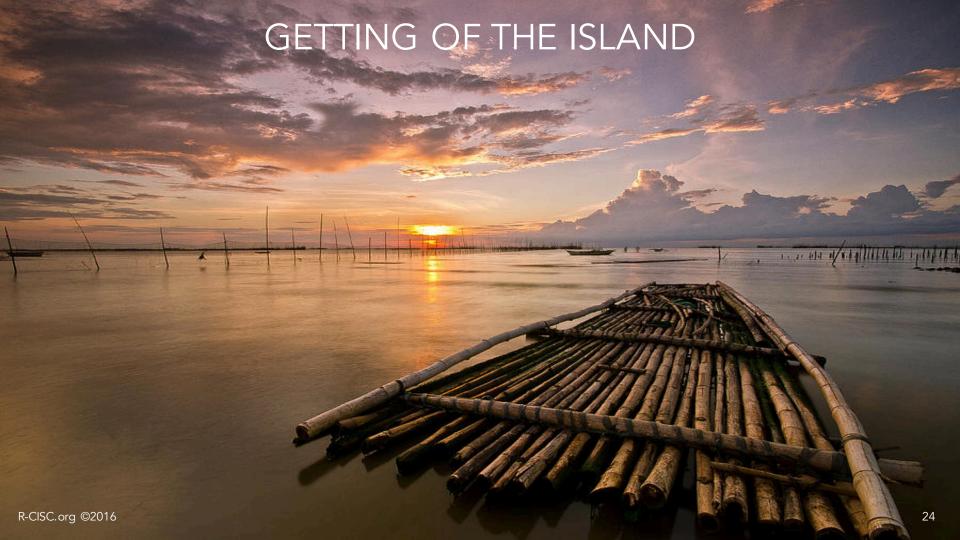
Before impact, intelligence you need gathered After impact, need to be actively hunting Where are your analysts able to spend their time hunting?

Can they afford to be curious?



## INTELLIGENCE FEEDBACK – THE CONTEXT ENGINE





## THE BUSINESS CASE - STRATEGIC DECISION SUPPORT



Reinventing the wheel



Limiting uncertainty and identifying risk



Rigidly banging away at yesterday's problem



## ABOUT THE R-CISC





The Retail Cyber Intelligence Sharing Center (R-CISC) is the trusted cybersecurity resource for all retailers, commercial services entities, and cyber security industry partners worldwide.

Created in response to the increased number and sophistication of attacks against our industries, the R-CISC provides the community of organizations serving consumers with apparel, food, lodging, entertainment and other forms of commercial services a significant tool to combat cyber criminals by sharing leading practices and threat intelligence within in a safe and secure way. Through an integrated community of cooperating organizations, we are stronger

together.

# CONTACT THE R-CISC



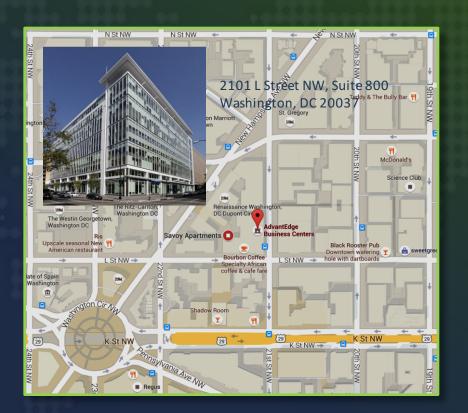
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